

SIEMENS

ARCOSKOP

SP

Pre-installation Instructions

© Siemens AG 1999

The reproduction, transmission or use of this document or its contents is not permitted without express written authorization. Offenders will be liable for damages. All rights, including patent and trademark registration rights, are reserved.

Register 3

Print number: SPR2-250.811.01.05.02

Replaces: SPR2-250.811.01.04.02

English

Doc. Gen. Date: 01.02

Chapters	Page	Rev.
all	all	05

Document revision level

The document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

Disclaimer

The installation and service of equipment described herein is to be performed by qualified personnel who are employed by Siemens or one of its affiliates or who are otherwise authorized by Siemens or one of its affiliates to provide such services.

Assemblers and other persons who are not employed by or otherwise directly affiliated with or authorized by Siemens or one of its affiliates are directed to contact one of the local offices of Siemens or one of its affiliates before attempting installation or service procedures.

Document revision level	2
Disclaimer	2

1 Pre-installation for ARCOSKOP 1-1

Safety Information and Protective Measures	1-1
General Information	1-1
Required Documents	1-1
Auxiliary Materials Required for Pre-installation.	1-1
Delivery Volume of Pre-installation Kit	1-2
1. ARCOSKOP	1-2
2. Electronics Box	1-3
3. Wall Outlets	1-3
4. Cable Set	1-4
5. Pre-installation Kit for Monitor Suspension System, if present	1-5
6. Compressor for the USA, if present.	1-5
Installation of the ARCOSKOP Sub-ceiling	1-6
Ceiling Anchor Plate	1-6
Sub-ceiling Spacers	1-7
Intermediate ceiling height 2840 - 2939	1-7
Interface plate	1-8
Installing the Electronics Box	1-9
Installing the Sub-ceiling Monitor Suspension System	1-10
Monitor Suspension System Ceiling Anchor Plate	1-10
Monitor Suspension System Spacers	1-12
Installing the Compressor, if present	1-16
Interface plate, if compressor present	1-18
Installing the Wall Outlets	1-19
Pre-installation Cable Sets	1-19
ARCOSKOP cable set.	1-19
External Monitor Cable Set, if present.	1-20
Cables and Connections Not Included in the Pre-installation Kit	1-20
ARCOSKOP	1-20
Monitor Suspension System, if present	1-20
DICOM-Bridge, if present	1-21
Additional Radiation ON Indicator Lamp for the Room, if present.	1-21
System Main Switch and Monitoring Equipment, if present	1-21
System Connections	1-22
Fixed Point Overview	1-22
Fixed Point List	1-23
List of Fixed Points Used	1-24
Final work	1-25
Cabling.	1-25
Covers	1-25
Pre-installation Checklist	1-26

2 Changes to Previous Version 2 - 1

This page intentionally left blank.

Safety Information and Protective Measures

NOTICE

- The work involved in installing the pre-installation kit and the cabling must be performed by authorized personnel only.
- The pre-installation work must be performed in accordance with the applicable general guidelines of Technical Service in ARTD 2, and the safety guidelines contained in TD00-000.860.01.01.

- At least 2 people are required for the installation.

General Information

- The dimensions in this document are indicated in millimeters unless otherwise specified.
- References to the monitor suspension system are based on the monitor suspension system manufactured by Siemens, including the ceiling pre-installation kit, which is offered as an option for the ARCOSKOP .
- During installation, consult and complete the installation checklist in Chapter 6. The service provider must sign this checklist before the system is turned over to the project manager.

- The service provider or engineer must confirm any text, settings, installation steps, and controls marked with "  " in the pre-installation checklist (Register 6).



- Prior to starting the installation, check the room height and the height of the lowered ceiling against the measurements provided in the diagram.

Required Documents

Room planning Included in the pre-installation delivery volume.
diagram:

Project plan: Generated by the responsible planning department; must be available to the project manager on-site during installation.

Auxiliary Materials Required for Pre-installation

- Standard service tool kit.
- Two ladders of adequate length, or scaffolding.
- Torque socket set, e. g., order number 80 86 142 RE999, as well as a torque wrench for 300 Nm and a socket wrench with 55 mm extension.
- 6 mm, 8 mm, 10 mm, 12 mm, and 24 mm drill for use with concrete slabs.
- Spirit level.

Delivery Volume of Pre-installation Kit

- Check that the parts included in the delivery volume are complete and undamaged.
- If the delivery is not complete or contains damaged goods, the project manager must be informed immediately.

NOTE

The pre-installation kit with ceiling canopy is suitable for the room height

- floor up to the lower edge of intermediate ceiling of 2940 mm to 3340 mm and for the intermediate ceiling height (bottom edge of intermediate ceiling up to concrete ceiling or ceiling substructure) of 201 mm to 1200 mm.

The pre-installation kit with ceiling panel is suitable for the room height

- floor up to the lower edge of intermediate ceiling of 2840 mm to 2939 mm and for the intermediate ceiling height (bottom edge of intermediate ceiling up to concrete ceiling or ceiling substructure) of 301 mm to 1200 mm.
-

1. ARCOSKOP

- The pre-installation kit for the ARCOSKOP stand consists of three parts: ceiling anchor plate, spacers, and interface plate.
- The pre-installation kit must be installed before the intermediate (dropped) ceiling.
- Contents:
 1. 1 x ceiling anchor plate
 2. 1 x interface plate
 3. 1 x planning diagram
 4. 8 x spacers
 5. 4 x Hilti anchors (concrete anchors) M24/30
 6. 1 x ceiling canopy or ceiling panel
 7. 1 x blind cover

2. Electronics Box

- The electronics box is delivered without the plug-in unit (this is delivered with the ARCOSKOP).
- Accessories:
 1. 6 x Hilti anchors (concrete anchors) M 8/30
 2. 6 x M8 nuts
 3. 6 x M 8 washer
 4. 6 x M 8 x 60 cylinder head studs
 5. 6 x isolation washers with collar
 6. 6 x isolation washers without collar
 7. Counterbalance for stand column, including installation hardware necessary for the ARCOSKOP installation
 8. Small hardware, bagged

3. Wall Outlets

- The wall outlets are supplied without the insert (this is delivered with the ARCOSKOP).
- Accessories:
 1. 14 filler plugs PG 21 with locking nuts
 2. 8 x M 3 screws
 3. Cover
 4. 4 x 6 mm anchors
 5. 4 x wood screws 4 x 50 mm

4. Cable Set

The connections with cable harness numbers are indicated in the fixed point overview and fixed point list.

- ARCOSKOP cable set:

The cable set is used for connecting wall outlet W1 to the electronics box.

Contents: see cable harness numbers 4 to 10.

- External monitor cable set, if present:

e.g., for monitor suspension system:

The cable set is used as follows:

- Connections from the E-box to the monitor suspension system (power, signal connection, protective conductor). Contents: see cable harness numbers 11, 12, and 13.
- Connections from wall outlet W2 to the monitor suspension system (video connections). Contents: see cable harness number 19.
- Connections from wall outlet W2 to the external keyboard (signal cable). Contents: see cable harness number 18. Since the monitor suspension system from Siemens has a built-in keyboard, route the cable as with cable harness number 19.

Cable lengths, exclusive of plug, included in the pre-installation kit:

Order no.	Cable type	Length
15 88 651	6 mm ²	30 m
34 62 728	3 x 4 mm ²	12 m
20 27 910	3 x 1.5 mm ²	12 m
20 27 753	3 x 0.75 mm ²	36 m
20 27 746	2 x 0.75 mm ²	40 m
20 27 431	4 x 0.75 mm ²	12 m
34 51 077	4 x 2 x 0.14 mm ²	30 m
15 86 796	75 Ohm	68 m

Cable routing is described below in the "Pre-installation Cable Set" section.

5. Pre-installation Kit for Monitor Suspension System, if present

- The pre-installation kit for the monitor suspension system consists primarily of three components: ceiling anchor plate, spacers, and interface plate.
- The pre-installation kit must be installed before the intermediate (dropped) ceiling.

Contents:

1. 5 x anchors (concrete anchors) M 24/30
2. 1 x ceiling anchor plate
3. 8 x M16 threaded rods, length depending on the height of the unfinished ceiling and intermediate (dropped) ceiling, maximum 740 mm
4. 1 x intermediate (dropped) plate
5. 16 x spacers 40 x 3.5 length, depending on the height of the unfinished ceiling and intermediate (dropped) ceiling, maximum 288 mm
6. 42 x M16 hexagonal nuts
7. 18 x washer
8. 17 x attachment bushings

6. Compressor for the USA, if present

- The compressor is supplied with accessories for connection to the ARCOSKOP.

Contents:

1. 1 x Compressor Box
2. 1 x Filtering System
3. 2 x Collector Bottle
4. 1 x 30 m Air Control Line
5. 1 x 5 m Air Control Line
6. 1 x Line connector hardware, bagged
7. 1 x Hardware, bagged

Installation of the ARCOSKOP Sub-ceiling

Ceiling Anchor Plate

- Check the height of the unfinished ceiling against the dimensions indicated in the room planning diagram.

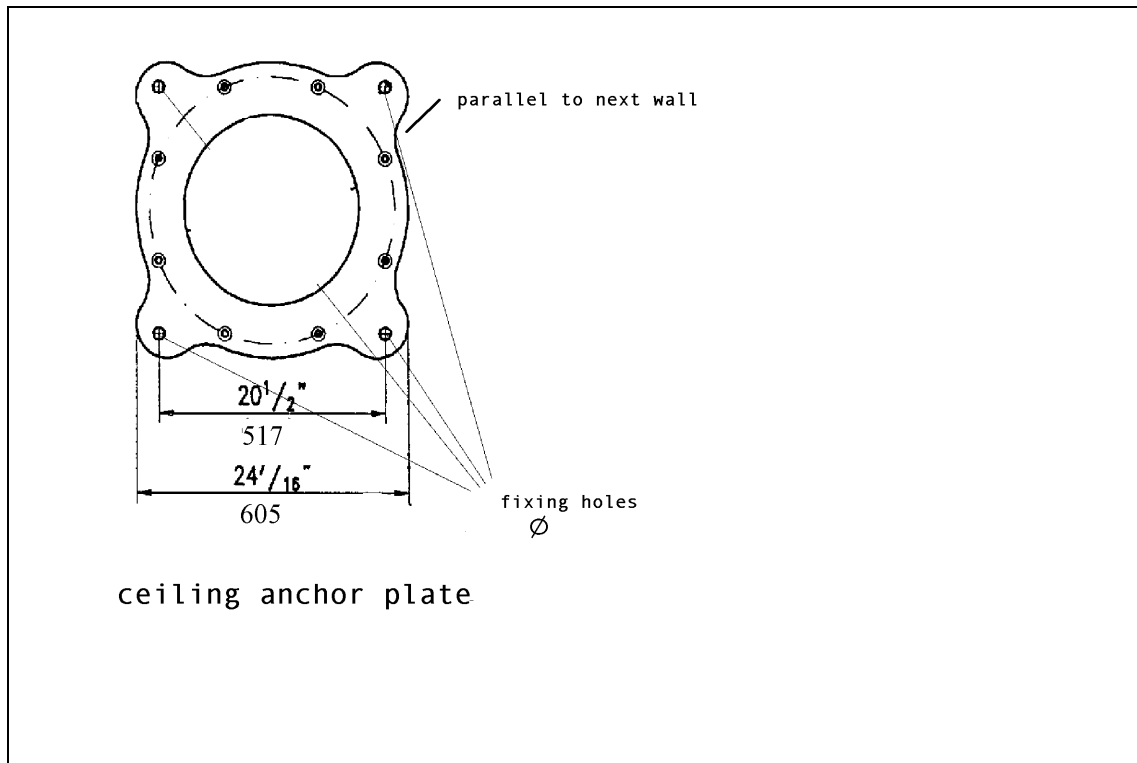


Fig. 1 Ceiling anchor plate



- Mark the drill holes for the anchor plate according to the room planning diagram. One side of the plate should be aligned parallel to the closest wall Fig. 1.
- Install the anchors in accordance with the manufacturer's instructions; for example, for HST M24: 24 mm drill diameter, minimum hole depth 170 mm, 300 Nm torque when attaching the anchors.
- When mounting with plates and threaded rods or an existing sub-ceiling, the nuts must be tightened to 120 Nm.

Sub-ceiling Spacers

Intermediate ceiling height 2940 - 3340

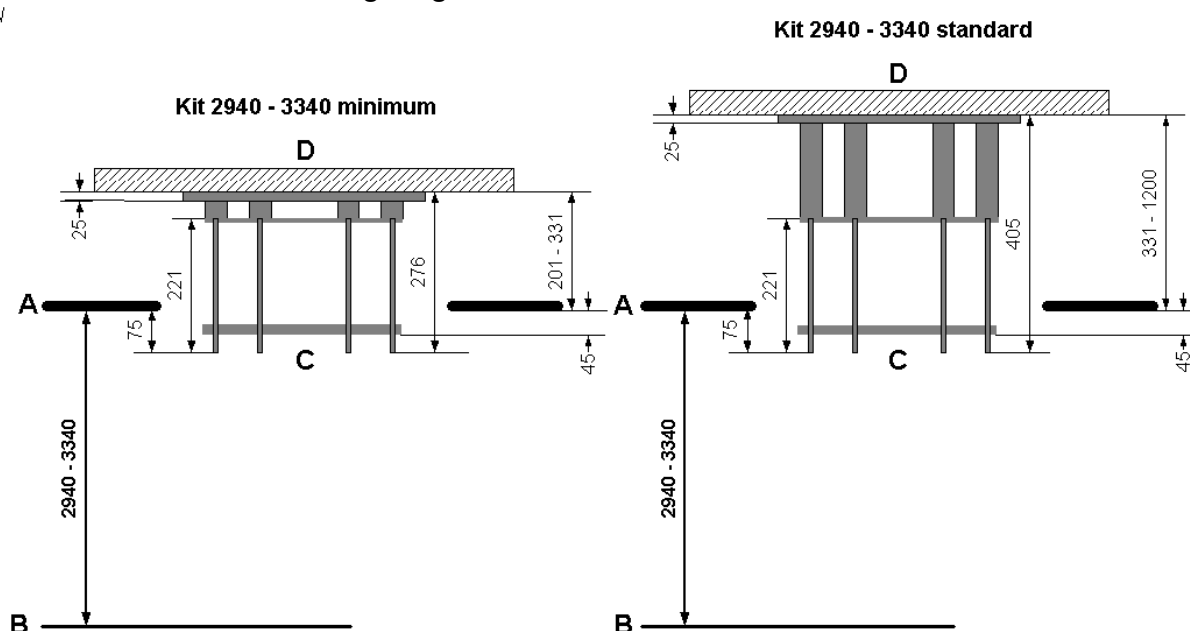


Fig. 2 Ceiling substructure

Intermediate ceiling height 2840 - 2939

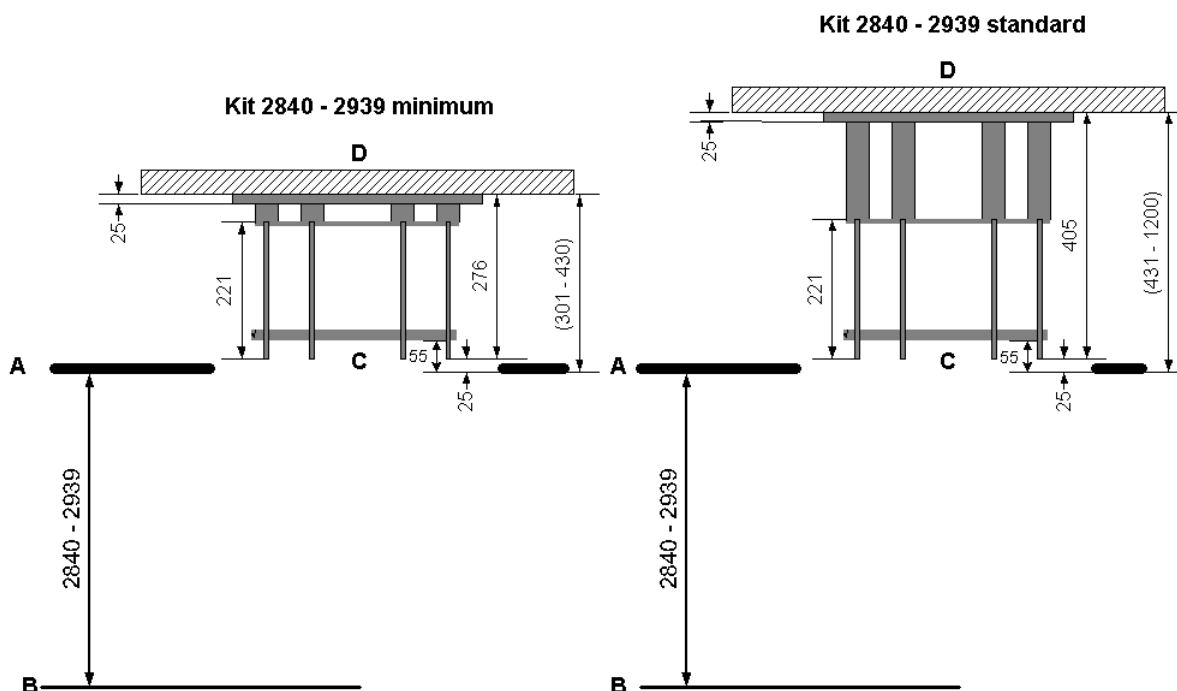


Fig. 3 Ceiling substructure



- Install the 8 sub-ceiling spacers and fasten tight with the 55 mm fork wrench, 120 Nm, standard kit



- Push the sub-ceiling spacers over the threaded rod and fasten tight with nuts M16, torque 70 Nm, minimum kit.

- Check the spacing of the intermediate ceiling (Fig. 2 = 75 mm or Fig. 3 = 25 mm).

Interface plate

- The compressed air connection is located on the interface plate.

NOTE**Only for USA:**

When a compressor is used for the compressed air, the connection of the interface plate is described under "Installing the Compressor, if present".

- Check that the interface plate corresponds to the data sheet (consignment number).

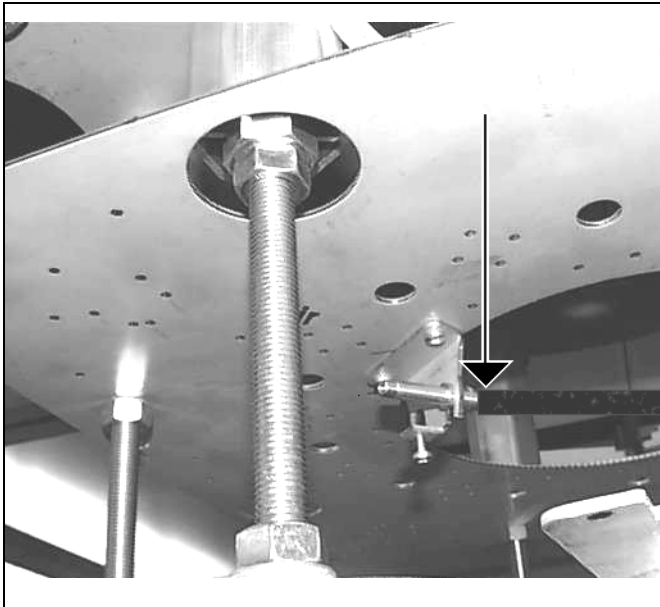


Fig. 4 Compressed air connection



Fig. 5 Compressed air connection1

- In order to determine which 4 lock nuts need to be removed from the spacers, position the interface plate with one side parallel to the closest wall and the connections facing down; see Fig. 4
- Remove these 4 lock nuts.
- Mount the interface plate to the 4 designated threaded rods with the M16 nuts, tightening each to 70 Nm; see Fig. 4.
- Lock the threaded bushings with 4 nuts; see Fig. 4.
- The on-site protective conductor is attached to the interface plate by one of the screws provided.
- The on-site compressed air inlet must be soldered by an authorized technician; see the arrow in Fig. 4.
- Install the 8.1 mm brass socket for the compressed air connection at the 8 mm copper pipe, using the support brackets on the lower side of the interface plate at the "air" mark; see Fig. 5.



Installing the Electronics Box



- Mark the holes for the electronics box according to the room planning diagram. One side should be aligned to be parallel to the closest wall.



- The minimum distance between the electronics box and the wall is 300 mm.
- The opening of the cable outlet on the long side of the electronics box faces the ceiling anchor plate. The distance between the cable outlet opening and the interface plate must not be less than 200 mm or greater than 500 mm.
- Install the anchors according to the manufacturer's instructions; e.g., for HST M8: 8 mm hole diameter, 65 mm minimum hole depth, and anchors tightened to a torque of 25 Nm.

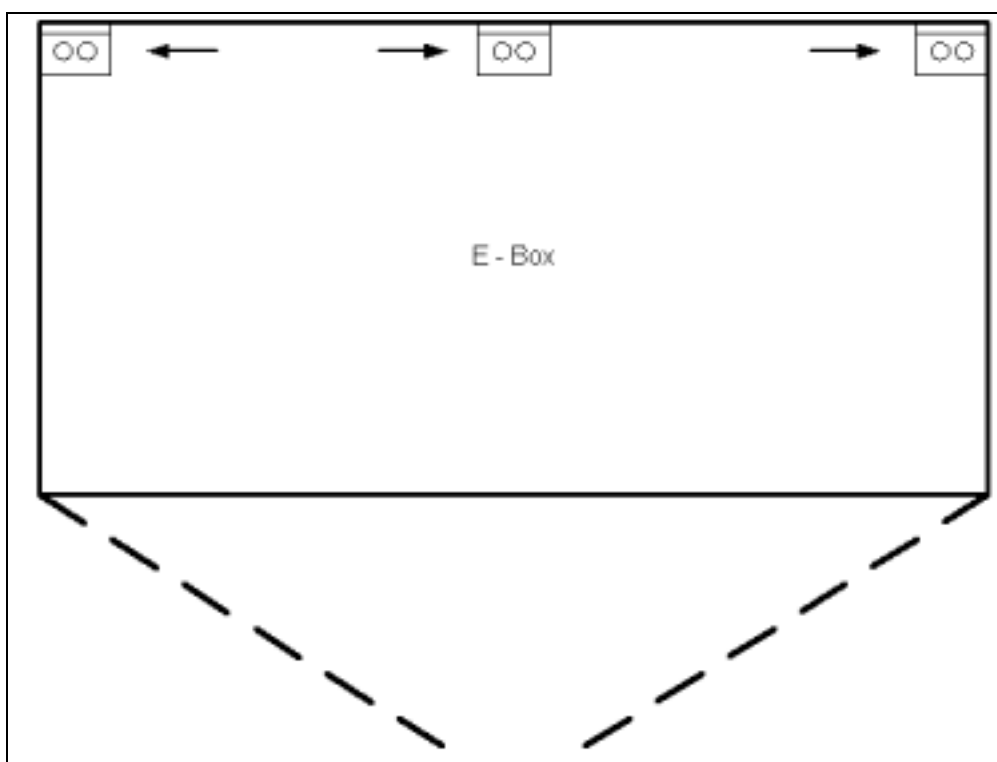


Fig. 6 E_Box_1

- The 6 attachment brackets must be attached to the outside of the electronics box with 2 screws in each of the threaded holes; see Fig. 6. Take the 6 attachment brackets and 12 screws out of the small hardware bag.
- Attach the small hardware: M6 screw; 6.4 washer on the E-box attachment bracket, and 6.4 washer in the E-box; contact washer; nut M6.
- Perform insulated installation of the box, using the supplied insulating sockets.
- For installation using plates and threaded rods or an existing sub-ceiling, the nuts must be tightened to 25 Nm.
- The bag contains washers, collared washers, and nuts for connecting the 16 mm² protective conductor to the 8 mm bolts.
- A protective conductor label should be affixed next to the bolts.

Installing the Sub-ceiling Monitor Suspension System

Monitor Suspension System Ceiling Anchor Plate



- Check the height of the unfinished ceiling or sub-ceiling and the height of the intermediate (dropped) ceiling against the dimensions indicated in the project plan.

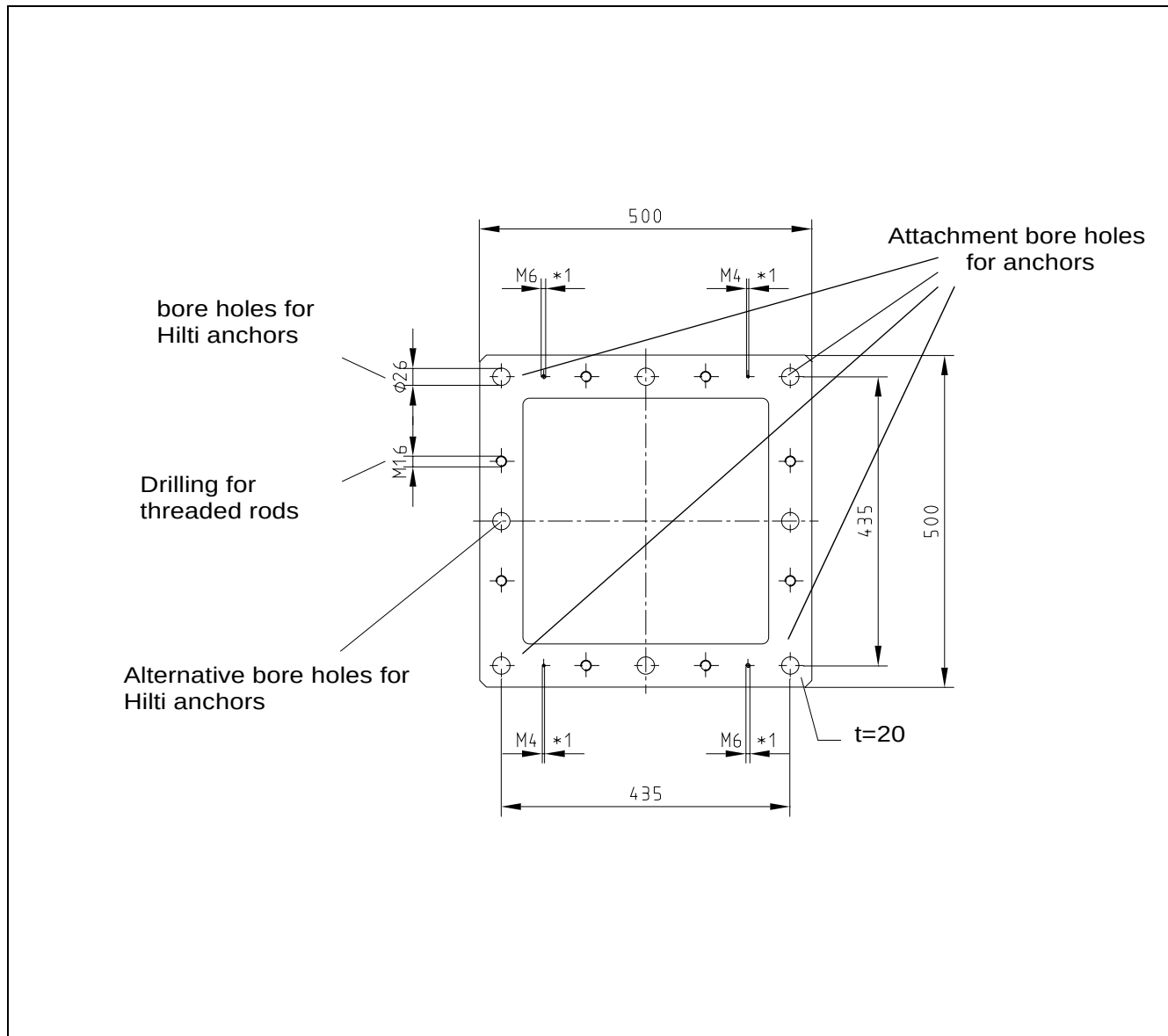


Fig. 7 Ceiling anchor plate, monitor suspension system

- *1 For ground screws

NOTE

Level to 1 mm/m

- Mark the drill holes for the anchor plate according to the room planning diagram. One side of the plate should be aligned parallel to the closest wall, see Fig. 7.



- Install the anchor bolts according to the manufacturer's instructions; for example, for HST M24: drill diameter 24 mm, minimum drill hole depth 170 mm, anchors tightened to a torque of 300 Nm.
- For installation using plates and threaded rods or an existing sub-ceiling, the nuts must be tightened to 120 Nm.
- The on-site protective conductor should be attached to one of the specified screw holes with the appropriate screw; see *1/Fig. 7.

Monitor Suspension System Spacers

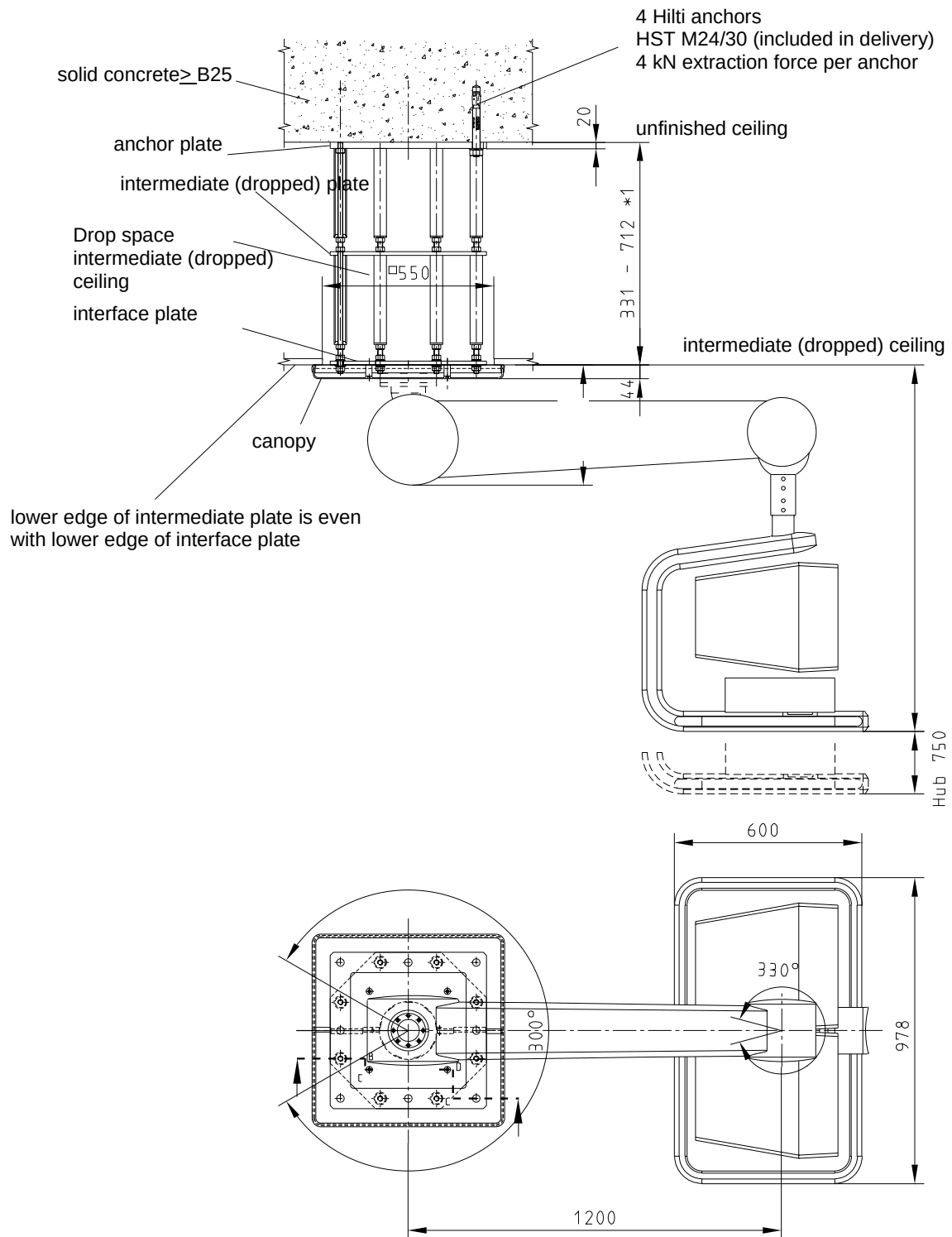


Fig. 8 Monitor suspension system sub-ceiling

*1 If greater than 712 mm, there must be a sub-ceiling.

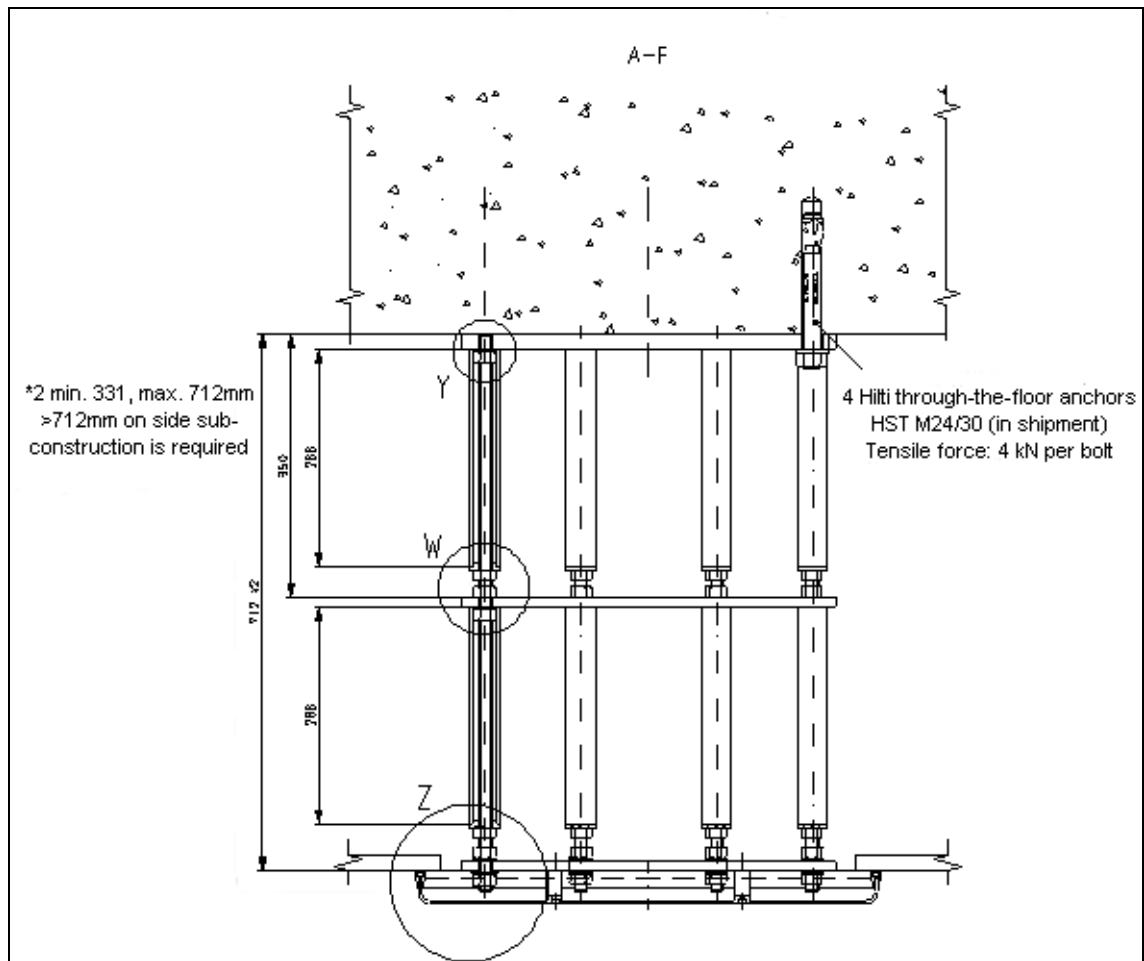


Fig. 9 ceiling interface

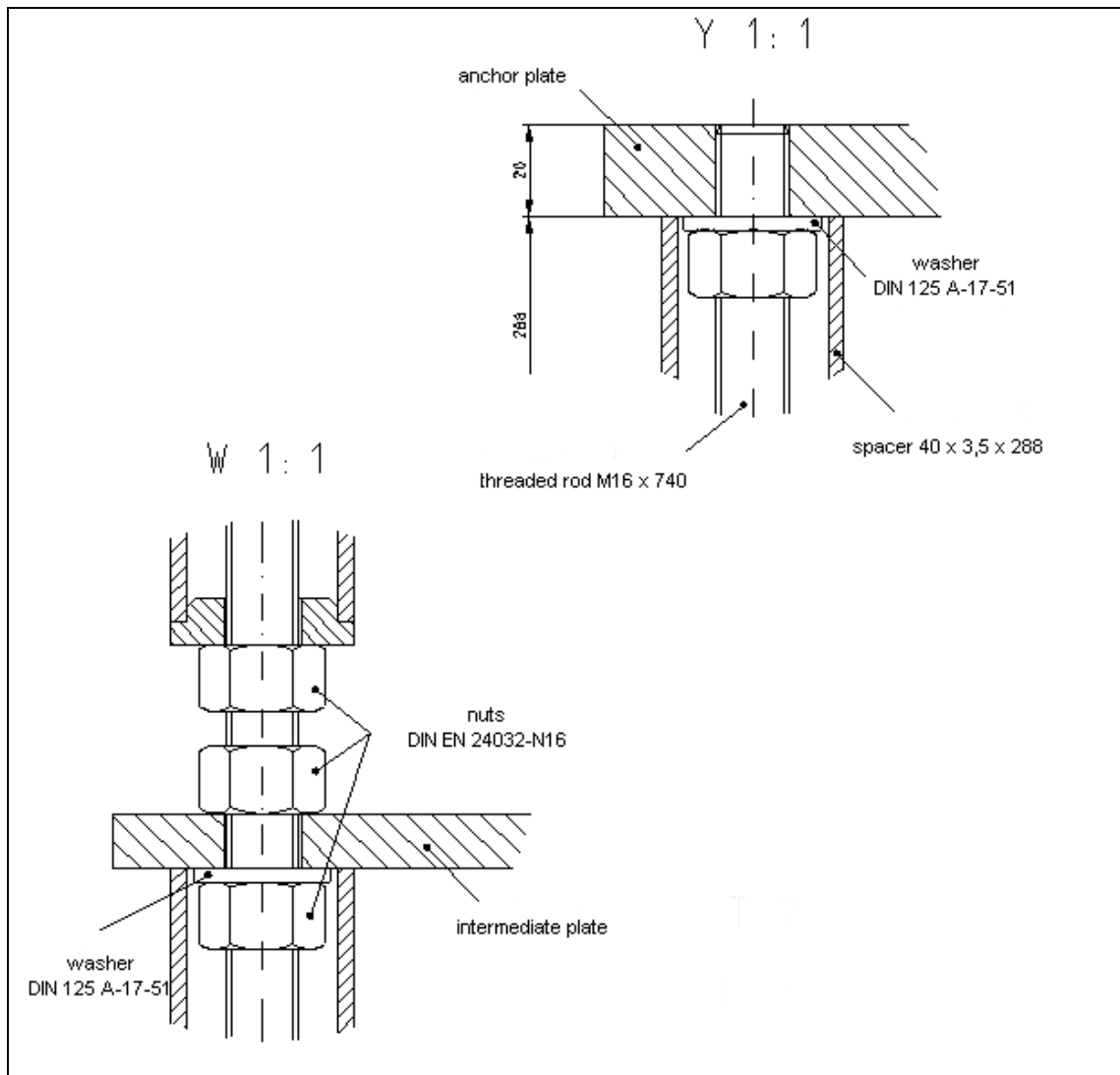


Fig. 10 interface plate

NOTICE**Fig. 8, Fig. 9, and Fig. 10:**

The dimensions provided are for a maximum distance of 712 mm between the concrete and the intermediate (dropped) ceiling. The spacers are manufactured as appropriate for the height of the concrete and intermediate (dropped) ceiling, and are delivered from 104 mm to a maximum of 288 mm. The intermediate plate must always be centered when installed.

- Check the height of the intermediate (dropped) ceiling anchor plate and the intermediate (dropped) ceiling against the dimensions indicated in the project plan.
- Turn the threaded rods into the threaded holes of the ceiling anchor plate until they contact the cement ceiling; i.e., the 20 mm thickness of the ceiling anchor plate is used. See **Fig. 10, Y**.

- The ends of the threaded rods are approximately 35 mm lower than the intermediate (dropped) ceiling; see **Fig. 9 Z**.

- Lock the threaded rods with washers and M16 hexagonal nuts.



- Slide the first 8 spacers over the threaded rods and secure with sleeves (see **Fig. 10, W**). Tighten the M16 nuts to 120 Nm.
- Screw the 8 M16 nuts onto the threaded rod. The distance between the lower edge of the spacers and the lower edge of the M16 nuts should be 42 mm; see **Fig. 10, W**.
- Push the intermediate plate up to the nuts. Again, slide 8 spacers over the threaded rods, secure them with the sleeves, and gently tighten them including the washers and M16 nuts; see **Fig. 8 A-E**.



- Use a water level to check the intermediate plate before tightening the M16 nuts to 120 Nm.
- Route cables to the intermediate plate and tie them together.
- If the intermediate (dropped) ceiling is closed, a mark should be made on the underside to indicate the center of the interface plate.

Installing the Compressor, if present

- The compressor should be installed according to the project plan and/or the specifications of the designated project manager.
- The filtering system and a collector bottle should be installed on a wall easily visible and in close proximity to the Arcoskop (**Air control line, ARCOSKOP - air filtering system = 5 m**).
- The compressor should be installed in a nearby control room. A collector bottle should be installed close to the compressor (**Air control line, compressor - air filtering system = 30 m**).
- Air control lines are supplied for the installation of the filtering system and the collector bottle.
- The required hardware is supplied in a bag:
 - 4 x 6 mm anchors + wood screws for each of the collector bottles
 - 4 x 8 mm anchors + wood screws for the filtering system
- The hose connector hardware is supplied in a bag:
 - 5 x hose clamps
 - 1 x coupler
 - cable ties

NOTICE

The setscrew at the connection for the condensed water hose must not be adjusted!

The compressor filters are preset for 5 bar.

The hoses must have no bends and no kinks!

Before routing the air control line, mark the connections of the air control hose lines. Before routing the hose lines pay attention to the required plug-in connections on the compressor, filtering system and ARCOSKOP (plugs and sockets). If required, the air control line can be shortened and fastened again at the connection piece with the supplied screw-type hose clamps.

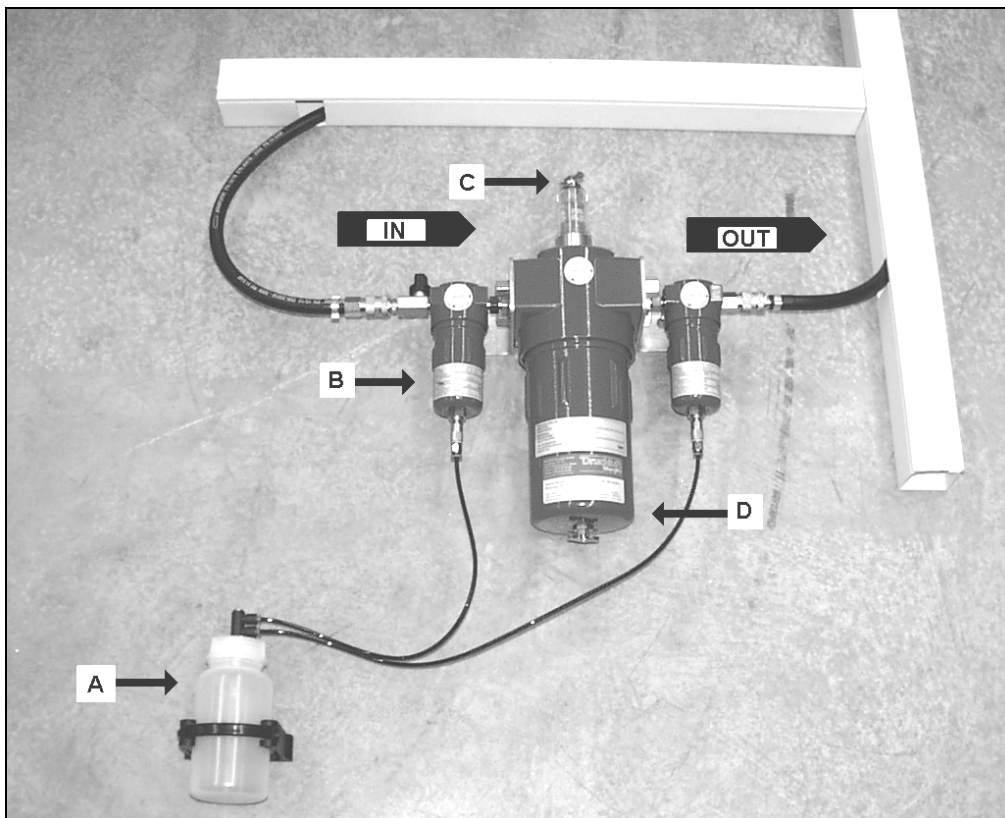


Fig. 11 Compressor_1

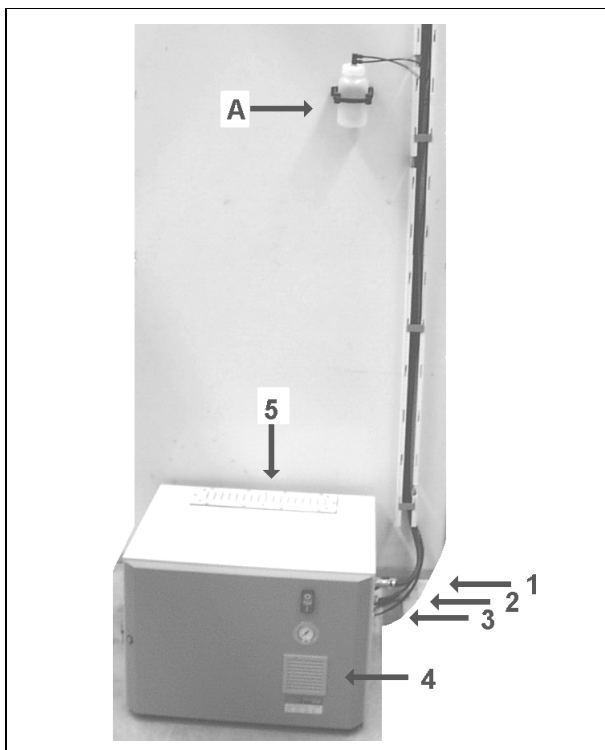


Fig. 12 Compressor

Filtering System:

A - Collector bottle

B - Filter

C - Color indicator

D - Filter

IN - from compressor

OUT - to ARCOSKOP

Compressor:

A - Collector

1 - Compressed air connection

2 - line voltage connection

3 - Collector bottle connection

4 - Fresh air intake ventilator

5 - Exhaust

- Route the line voltage lead and the air control lines according to the project plan.
- The hoses are plugged into the collector bottles connectors.
 - To connect a hose, push the connector fitting past the retainer collar until it stops
 - To remove a hose, push in the retainer collar and pull

Interface plate, if compressor present

- The compressed air connection mount is located on the interface plate and indicated by "AIR."
- Verify that the interface plate corresponds to the room planning diagram (commission number).

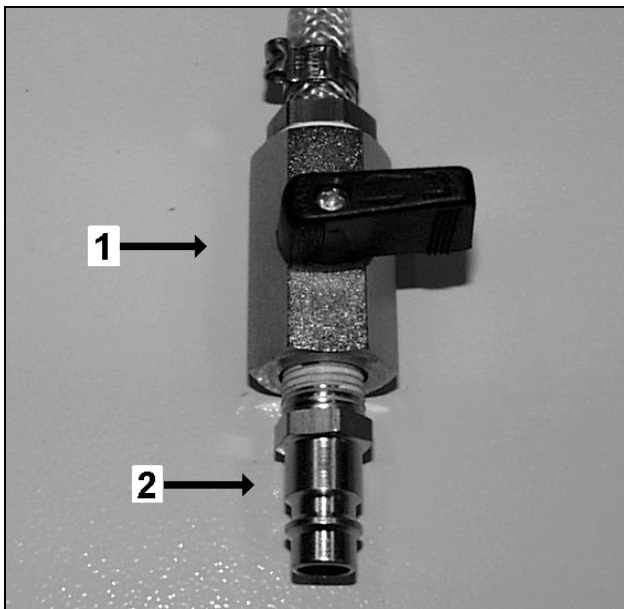


Fig. 13 Compr_Anschl_ARC_1

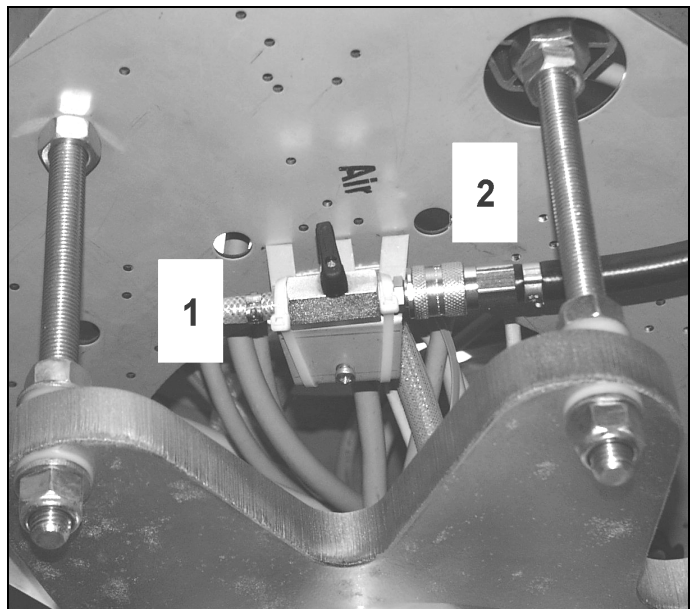


Fig. 14 Compr_Anschl_ARC_2

- In order to determine which 4 lock nuts need to be removed from the spacers, position the interface plate with one side parallel to the closest wall and the connections facing down; see Fig. 14.
- Remove these 4 lock nuts.
- Mount the interface plate to the 4 designated threaded rods with the M16 nuts, tightening each to 70 Nm; see Fig. 13.
- Lock the threaded bushings with 4 nuts; see Fig. 14.
- The on-site protective ground should be attached to one of the existing screws on the interface plate.
- Route the air control line to the interface plate, see project plan.
- It is absolutely necessary to plug the plug-in sleeve, see arrow 2/ Fig. 13 on the air control line end at the interface plate 2/ Fig. 14 to secure the plug-in sleeve.
- The plug-in sleeve is required for the later installation on the shut-off valve of the ARCOSKOP, see 1/ Fig. 14 and 1/ Fig. 13.

Installing the Wall Outlets



- The wall outlets are suitable for concealed installation, and must be installed according to the site planning in the intended locations using 4 anchors and screws. Attach covers to the wall outlets with screws.

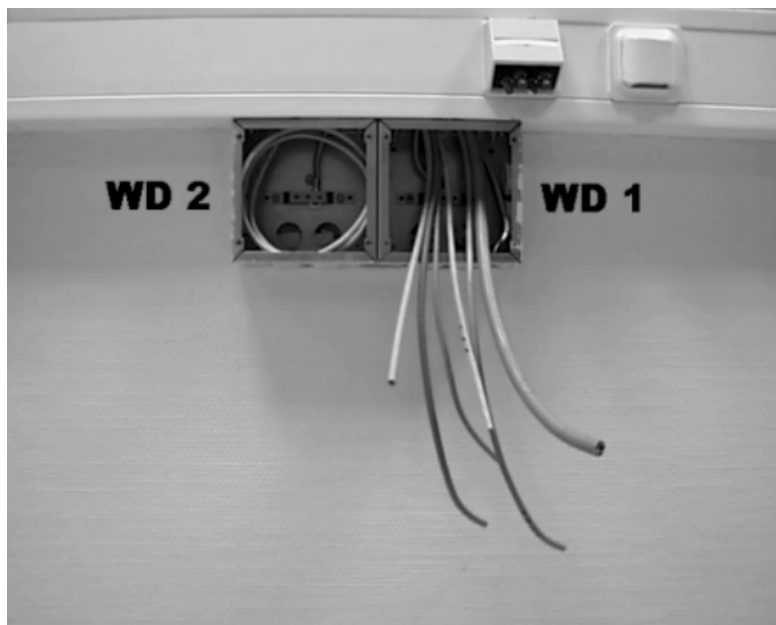


Fig. 15 wall outlets

Pre-installation Cable Sets

ARCOSKOP cable set

Cable from the wall outlet (WD 1):

- To the electronics box (EB), see cable harness numbers 4 to 10.
- Route the control and signal cables separately from the power cables.
- The cables in the E-box EB should have approximately 1 m of extra length.
- The cables in wall outlet WD 1 should have approximately 300 mm extra length; **see Fig. 15** and cable harness number 4 to 10.



External Monitor Cable Set, if present**1. Cable from the wall outlet (WD 2):**

as illustrated by the monitor suspension system.

1.1. The video cables to the monitor suspension system for connection to monitors.

Extra length of the wall outlet WD 2 cable: approximately 300 mm.

Extra length of cables from the intermediate (dropped) ceiling for the monitor suspension system: approximately 1 m.

1.2. Signal cables for the external keyboard.

- A. If the keyboard will be installed on the monitor suspension system:

Extra length of wall outlet cable: approximately 300 mm.

Extra length of cable from the intermediate (dropped) ceiling: approximately 1 m.

- B. If the keyboard is planned for another installation site:

Extra length of wall outlet cable: approximately 300 mm.

Extra cable length: at least 1 m when the cable outlet is at the keyboard installation site,

otherwise approximately equal to the distance between the cable outlet and the installation site, plus 1 m.

2. Cable for the electronics box (EB):

Power cables, signal cable, and protective conductor for the monitor suspension system.

Extra cable length in the E-box: approximately 1 m.

Extra length of cables from the intermediate (dropped) ceiling for the monitor suspension system: approximately 1 m.

Refer to cable harness numbers 11, 12, 13, 18, and 19 in the fixed point list.

Cables and Connections Not Included in the Pre-installation Kit**ARCOSKOP**

- Line voltage connection box (ND) with appropriate cable diameter to stay within maximum internal line impedance; refer to cable harness number 3.
 - 100/110/120/127 Volt $\leq$ 0.30 Ohm
 - 200/230/240 Volt $\leq$ 0.80 Ohm,
- Electronics box with 16 mm² protective conductor; refer to cable harness number 1.
- The ceiling anchor plate should be grounded on-site.

Monitor Suspension System, if present

- Line voltage connection cable for the electronics box; refer to cable harness number 2.
- The ceiling anchor plate should be grounded on-site.

DICOM-Bridge, if present

- When connecting a DICOM Bridge (optional), the "DICOM Pre-Installation Checklist" must be completely filled out before beginning installation of the ARCOSKOP.
- The "DICOM Pre-Installation Checklist" is available on the intranet under ARCOSKOP/CB-DOC.

Additional Radiation ON Indicator Lamp for the Room, if present

- The connector cable from the E-box should be routed to an on-site 24 volt relay with a maximum 4 watt coil output. This relay connects a lamp or a power relay; refer to cable harness number 20.

For example:

- There is an indicator lamp over the door to the examination room with the warning "RADIATION ON" and a supply voltage of 230 V.

Because the 24 volts and the switching contact in the E-box are suitable for a maximum of only 4 watts, a 24 volt relay with less power dissipation must be provided on-site. The contacts of this relay must be designed for the lamp's voltage and power output, or they must activate a power relay. The lamp cables must be routed by authorized personnel.

System Main Switch and Monitoring Equipment, if present



- Cabling is performed by authorized personnel according to an electrical circuit diagram. Examples can be found in Chapter 3 ("Installation Preparations") of the ARCOSKOP Planning Guide, number SPR2-250.891.xx.

System Connections

Fixed Point Overview

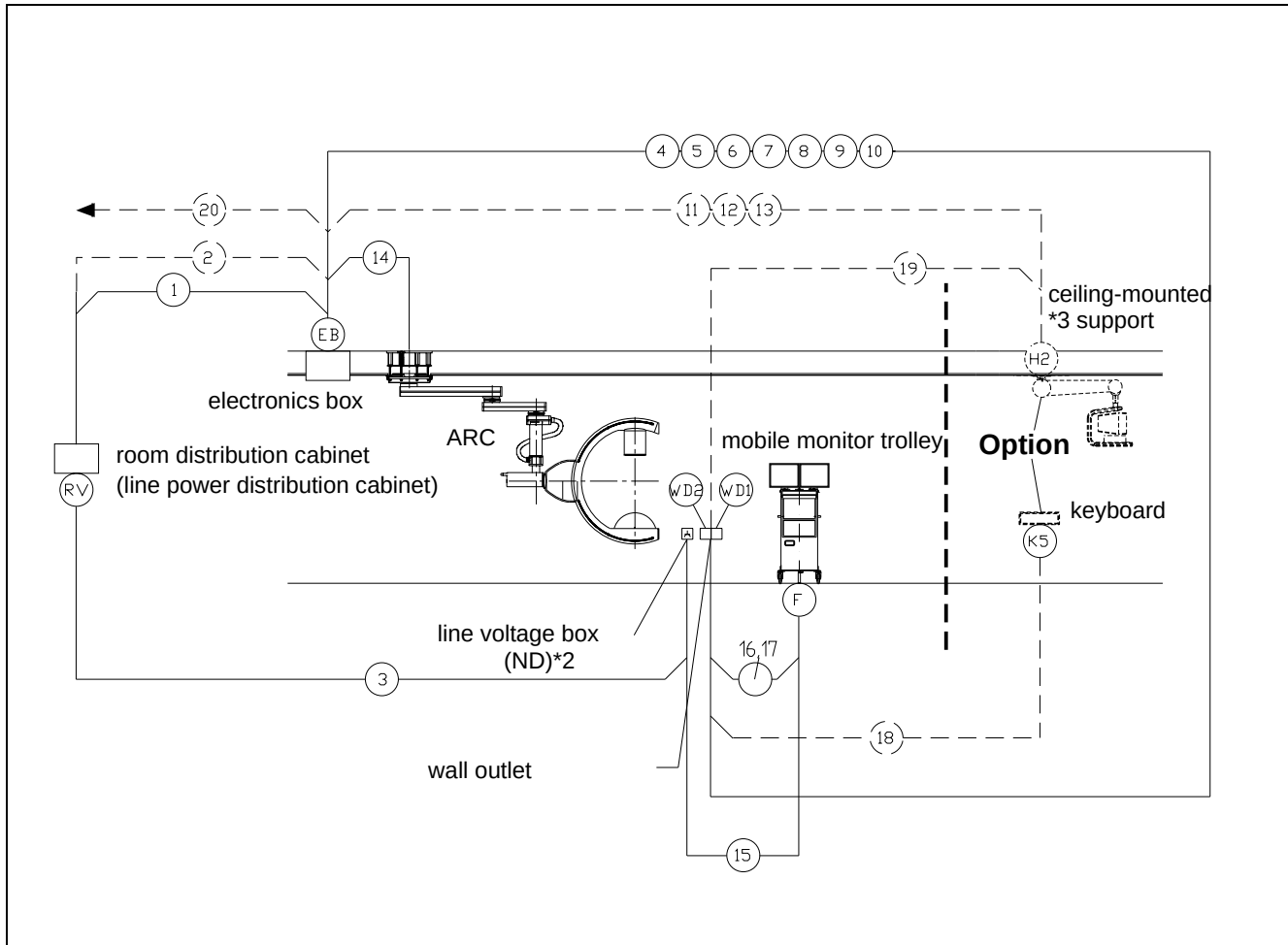


Fig. 16 S_4-02

*1 All on-site cables must not exceed the maximum length (refer to Fixed Point List).

*2 Refer to electrical data.

*3 Additional monitors can also be installed on tilting, rotating consoles (optional).

They are connected via the wall outlet (WD) and electronics box (EB) as with the ceiling-mounted support.

Fixed Point List

Cable harness no.	From fixed point	To fixed point	Cable duct diameter in mm ²	Tube, clear distance in inches	Minimum outlet in mm	Maximum fixed point distance in m	Comment
1	RV	EB	30	1/2	Ø 10	—	PG 16 mm ² protective conductor (on-site)
2	RV	EB	125	3/4	Ø 20	—	NK 3 x 1.5 mm ² *3 line voltage (on-site)
3	RV	ND	—	—	—	—	power connection *2 (on-site)
4	EB	WD1	30	1/2	Ø 10	12	PG 6 mm ² *4 PG wall outlet Item no. 15 88 651
5	EB	WD1	180	3/4	Ø 20	12	NK 3 x 4 mm ² *4 line voltage generator Item no. 34 62 728
6	EB	WD1	30	1/2	Ø 10	12	NK 3 x 1.5 mm ² *4 line voltage supply Item no. 20 27 910
7	EB	WD1	100	3/4	Ø 20	12	NK 4 x 0.75 ² *4 system on/off Item no. 20 27 431
8	EB	WD1	55	1/2	Ø 10	12	4 x (2 x 0.14 mm ²) *4 control cable, shielded Item no. 34 51 077
9	EB	WD1	80	3/4	Ø 20	12	NK 2 x 0.75 mm ² *4 radiation indicator Item no. 20 27 746
10	EB	WD1	70	3/4	Ø 20	12	Triax Ø 7.5 mm, *4 BAS signal for camera Item no. 15 86 796
11	EB	H2	30	1/2	Ø 10	18	PG 6 mm ² *3, *4 PG monitor block
12	EB	H2	80	3/4	Ø 20	18	2 x 0.75 mm ² *3, *4 monitor block radiation indicator
13	EB	H2	125	3/4	Ø 20	18	NK 3 x 1.5 mm ² *3, *4 monitor block
14	EB	ARC	—	—	—	—	pre-installed cable *1 (manufactured)
15	ND	F	—	—	—	7	power cable *1 (monitor trolley)
16	WD1	F	—	—	—	7	monitor cable *1 (monitor trolley)

Cable harness no.	From fixed point	To fixed point	Cable duct diameter in mm ²	Tube, clear distance in inches	Minimum outlet in mm	Maximum fixed point distance in m	Comment
17	WD1	F	—	—	—	4	TV cable *1 (monitor trolley)
18	WD2	K5	55	1/2	Ø 10	18	4 x (2 x 0.16 mm ²) *3 control cable
19	WD2	H2	2 x 70	3/4	Ø 20	18	2 x Triax Ø 7.5 mm 75 Ohm *3 , *4
20	EB	Relay	125	3/4	Ø 20	-	external radiation indicator (e.g., lamp over the door) on-site

*1 Included in delivery volume

*2 Refer to electrical data

*3 Optional

*4 ARCOSKOP pre-installation component

NOTE
All cables are flexible
List of Fixed Points Used

Fixed point	Subsystem	Comment
ARC	ARCOSKOP	fixed point - ceiling
EB	Electronics box	fixed point - ceiling
F	Monitor trolley	fixed point - floor
H2	Ceiling-mounted support	fixed point - ceiling
K5	Keyboard	fixed point - wall or ceiling
RV	Room distribution cabinet (line power distribution cabinet)	fixed point - wall
ND	Line voltage box	fixed point - wall
WD	Wall outlets	fixed point - wall

Final work

Cabling

- Check all cables that they are designated correctly.
- Fix the cable ends in the existing sockets and cable outlets.

Covers

- Check the covers for completeness and fit them if necessary, e.g. on interruption of the installation.

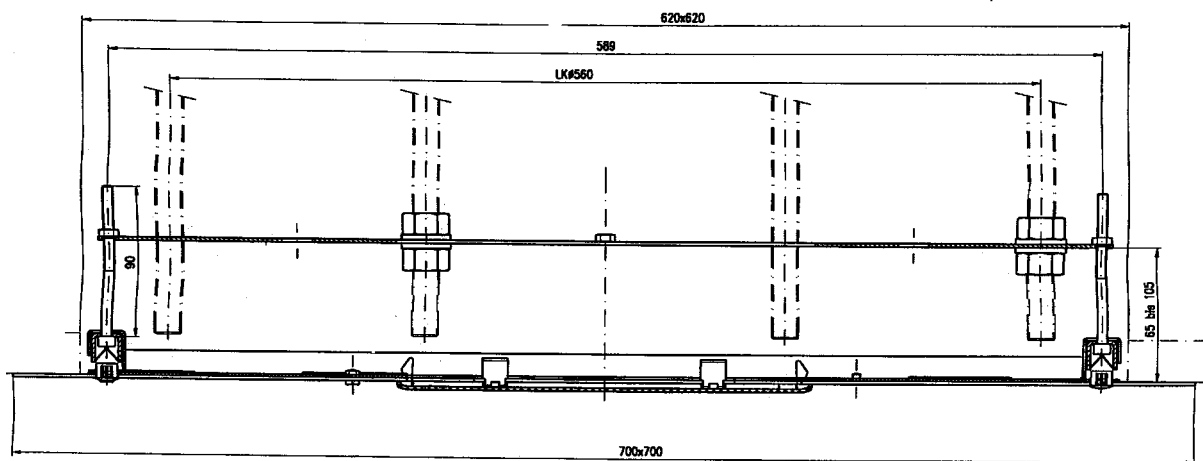


Fig. 17 Ceiling panel

Cover with the ceiling panel, see Fig. 17.

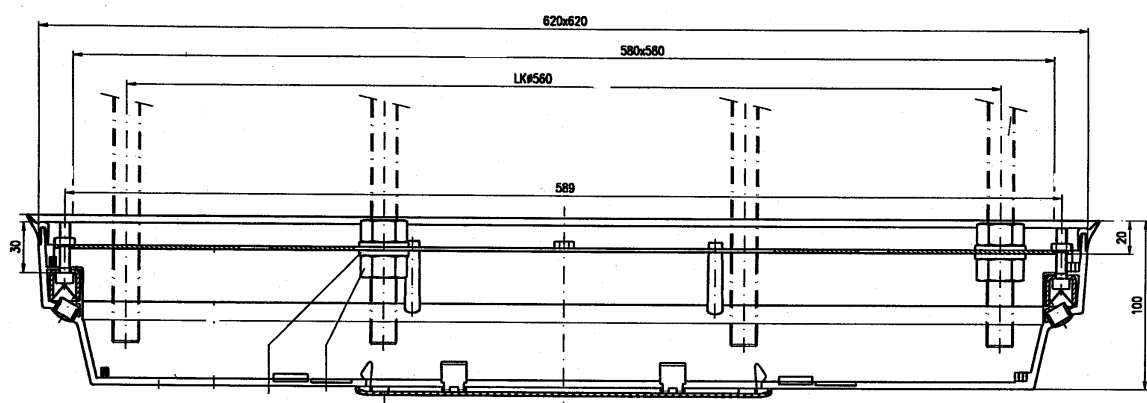


Fig. 18 Canopy plate

Cover with the canopy, see Fig. 18.

Pre-installation Checklist

		o.k.
		☒
• Ceiling anchor plate		
- Room height and height of intermediate (dropped) ceiling were checked		
- Tightened to the appropriate torque		
• Spacers		
- Distance between interface plate and lower edge of intermediate (dropped) ceiling greater than 120 mm		
- Stud bolt projection relative to lower edge of intermediate (dropped) ceiling = 75 mm or 25mm		
• Interface plate		
- Compressed air line soldered to the socket on the interface plate and checked		
• Electronics box		
- Installation as per project plan		
- Distance from cable outlet opening to interface plate 200 to 500 mm		
• Wall outlets		
- Installation of wall outlets as per project plan		
• Monitor suspension system, if present		
- Installation as per Project Plan		
- Tightened to the appropriate torque		
• Routing cables and lines		
- Cable connections completed using the pre-installation instructions		
- The on-site cables for the ARCOSKOP have been routed and connected		

Once pre-installation is finished, the protocols should be sent to TDPS 3.

One copy stays with the system and is filed in the System Manual.

Location, date

Members of pre-installation team

Siemens project manager

Print name

Print name

Chapter 1

Revised/new sections:

- New pre-installation kits with dimensions
- Pressure filters are preset
- New picture for compressed air filter
- New picture for MTS anchor plate
- Final work

This page intentionally left blank.